## SEQUENCE LISTING

	(1) GENE	RAL INFORMATION:
	(i)	APPLICANTS: Philip Dan Cook
5		TITLE OF INVENTION: PNA-DNA-PNA Chimeric Macromolecules
	(iii)	NUMBER OF SEQUENCES: 4
10		CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: Woodcock Washburn Kurtz  Mackiewicz and Norris
15		(B) STREET: One Liberty Place - 46th Floor (C) CITY: Philadelphia (D) STATE: PA (E) COUNTRY: U.S.A. (F) ZIP: 19103
20	, ,	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk, 1.44 Mb storage  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: WordPerfect 5.1
	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: n/a  (B) FILING DATE: herewith  (C) CLASSIFICATION:
25	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US92/11339 (B) FILING DATE: December 23, 1992
30		ATTORNEY/AGENT INFORMATION:  (A) NAME: John W. Caldwell  (B) REGISTRATION NUMBER: 28,937  (C) REFERENCE/DOCKET NUMBER: ISIS-1236
	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 215-568-3100 (B) TELEFAX: 215-568-3439
3 5	(2) INFO	RMATION FOR SEQ ID NO: 1:
		(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single
40	)	(D) TOPOLOGY: linear (iv) ANTI-SENSE: yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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ISIS-1236

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 17

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(iv) ANTI-SENSE: yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

10 TTCTCGCTGC ATTTCAG 17

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(iv) ANTI-SENSE: yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TATTCCGTCA TCGCTCCTCA 20

20 (2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(iv) ANTI-SENSE: yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TGTACGTCAC AACTA

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